

Unit 4 – Solving Multi-Step Equations Quiz 1

Solve. (1 point each)

$$\begin{array}{r} -14 - 5g = -9 \\ +14 \quad +14 \\ \hline -5g = 5 \\ \hline -5 \quad -5 \\ \hline g = -1 \end{array}$$

$$\begin{array}{r} 15 = -3(x - 1) + 9 \\ 15 = -3x + 3 + 9 \\ 15 = -3x + 12 \\ -12 \quad -12 \\ \hline 3 = -3x \\ \hline -3 \quad -3 \\ \hline -1 = x \end{array}$$

$$\begin{array}{r} 7 + 2(a - 3) = -9 \\ 7 + 2a - 6 = -9 \\ 2a + 1 = -9 \\ -1 \quad -1 \\ \hline 2a = -10 \\ \hline 2 \quad 2 \\ \hline a = -5 \end{array}$$

$$\begin{array}{r} 2(a - 4) + 15 = 13 \\ 2a - 8 + 15 = 13 \\ 2a + 7 = 13 \\ -7 \quad -7 \\ \hline 2a = 6 \\ \hline 2 \quad 2 \\ \hline a = 3 \end{array}$$

$$\begin{array}{r} 5(2x + 6) = -4(-5 - 2x) + 3x \\ 10x + 30 = 20 + 8x + 3x \\ 10x + 30 = 20 + 11x \\ -20 \quad -20 \\ \hline 10x + 10 = 11x \\ -10x \quad -10x \\ \hline 10 = x \end{array}$$